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NANOSECOND TO FEMTOSECOND LASER-INDUCED OPTICAL DAMAGE

B.C. Stuart, M.D. Feit, A.M. Rubenchik, B.W. Shore, and M.D. Perry

Lawrence Livermore National Laboratory
P.O. Box 808, L-493, Livermore, CA 94550
phone: (510) 424-5782, fax: (510) 422-1930
email:stuart3@llnl.gov

Abstract

We have measured damage thresholds of optics for high-energy, short-pulse lasers with pulsewidths of 140 fs to 1 ns. A change in mechanism and morphology is evident near 20 ps. A theoretical model is in quantitative agreement with measurements at 1053 and 526 nm.

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